Problem Solving Checklist

Use this Checklist with the IAQ Problem Solving Wheel to resolve a single IAQ complaint, or several complaints occurring at the same time that seem related. Mark a copy of the fire escape floorplan or use other means of recording and reviewing information. Since this Checklist becomes a record of your activities in resolving an IAQ complaint(s), date it and file it for future reference. Involve additional staff, such as engineers, during the problem solving process.

IAQ Coordinator		
School		

Complaint Data

Record complaints below at the beginning of your problem solving process. Interview the complainant(s) to get a complete and accurate description of the complaint symptoms, times, and locations.

Complainant Name	Date Received	Description of Complaint (symptoms or explanation)	Location(s) or Room Number(s)	Is Problem Ongoing?	Occurence Date(s) & Time(s)
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Problem Solving Steps

Follow the directions on the IAQ Problem Solving Wheel to investigate potential causes of the symptoms recorded above. Use the steps below to help keep your investigation organized and documented.

	Step	Date Completed	Notes
b b	Relate the symptoms from the complaint data box to a group of symptoms in the Notes column to the right		 □ Odors □ Temperature or humidity problems (occupant discomfort) □ Headache, lethargy, nausea, drowsiness, and dizziness □ Swelling, itching, or irritated eyes, nose, or throat; congestion □ Cough; congestion; chest tightness; shortness of breath; fever; chills and/or fatigue □ Diagnosed infection or clusters of serious health problems

Is this an emergency? Yes No See the Wheel sectors "Identifying an emergency" and "What to do in an emergency"		-					
gency and what to do in an emergency			Actions Taken:		Evacuation	☐ Notification	Other:
Place a checkmark next to the potential causes in Step 4 below that are shown at 2 on the Wheel.							
Each section below corresponds to a section of to possible to a section of two perform. Three spaces are provided below for the chan one location or piece of equipment. Make that apply to your building.	or eac	h diagnostic	step to allow y	ou t	o record ir	nformation for 1	more
		ompleted (for ea			No	tes	
	loca	ntion if more than one ocation or piece of uipment is involved)					
	1						
demperature & Humidity sthermostat properly set? stair flowing from the vent warm (for heat) r cool (for air conditioning)? the drafts or direct sunlight causing discomport? shumidity too high or low (best if between 0-60% rel. humidity)? stondensation often present on windows or ther cold surfaces? sthere an objectionable odor? Outdoor Air Supply st ventilation system turned on? stoutdoor intake blocked? the supply vent(s) blocked? stair flowing from supply vent(s)? stair flowing into outdoor intake? the outdoor air or supply ducts blocked? stoutdoor air supply at least 15 cfm per person? stoCO ₂ in the area higher than 1000 ppm?							
air Handling Unit to the system turned on? to the air flowing from vent(s)? to the fan operating? to the filter(s) clean & properly installed? the dampers operating properly? to there moisture, debris or microbial growth a or around the unit? to the drain pan clean & draining? the coils clean? to combustion equipment properly vented to flue leaks, spillage, or backdrafting)?							
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CO2 in the area higher than 1000 ppm? ir Handling Unit the system turned on? the air flowing from vent(s)? the fan operating? the filter(s) clean & properly installed? re dampers operating properly? there moisture, debris or microbial growth or around the unit? the drain pan clean & draining? re the coils clean? combustion equipment properly vented

Step		Date completed (for each location if more than one location or piece of equipment is involved)		
	1	2	3	
 □ Local Exhaust ■ Does exhaust turn on? ■ Is the exhaust used when needed? ■ Is air flowing out the exhaust vent? ■ Is exhaust duct work blocked? ■ Is a sufficient amount of air being exhausted? ■ If everything works, but not enough air is being exhausted, can make up air easily enter the room (e.g., through spaces under doors)? 			·	
 Biological Sources Are animals or fungi (mold) present? Is there an odor of mold or mildew in or near the complaint area? Is there standing water near the complaint area or in the air handling unit? Is condensation often present on window or cold surfaces? Is indoor relative humidity above 60%? Are contagious occupants present? 				
 Housekeeping Sources Do complaints occur during or just after housekeeping activities? Do housekeeping activities take place near the complainants? Are any new products in use? Are housekeeping products being used according to directions? Are products stored in sealed containers or in a vented room(s)? 				
 □ Outdoor Sources ■ Are sources of odor or pollutants (e.g., vehicles, stored chemicals, trash, plumbing vents) located near outdoor air intakes? ■ Are there sources nearby or upwind: Combustion byproducts from traffic, loading docks, or flue exhausts? Industrial, agricultural, or lawn care activity? Construction activity? ■ Are pollen levels high? 				
 Building Sources Has there been recent painting, roofing, or other remodeling or construction? Were pesticides applied recently near the complaint area? Are new furnishings or equipment in place? Are drain traps dry? Are chemicals stored in poorly sealed containers? Is it overly dusty? 				

Step	Date Completed	Notes
5. Repeat all diagnostics for each potential cause in all affected locations.		
If the diagnostics for the recommended potential		
6. If the diagnostics for the recommended potential causes did not identify the problem(s), investigate remaining potential causes in Step 4 until the cause(s) of the complaint(s) are identified and corrected.		
7. If problem remains unidentified or uncorrected, obtain professional assistance.		Company: Person: Phone:
8. Provide notice if problem is not quickly resolved.		☐ Notice to Occupants ☐ Notice to parents of minors
9. Problem resolved and preventive measures taken.		Describe solution:
		☐ Preventive measures taken:
10. Provide a final report.		☐ Final report to occupants ☐ Final report to parents of minors
To prevent future problems implement an IAQ Management Plan.		- That report to patents of finitors
12. File this Checklist and related information.		☐ Done